

Office Action Summary**Application No.**

10/797,382

Applicant(s)

TRINKEL ET AL.

Examiner

JAKIEDA JACKSON

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3 and 7-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3 and 7-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. In response to the Office Action mailed March 11, 2011, applicant submitted an amendment filed on June 10, 2011, in which the applicant traversed and requested reconsideration.

Response to Arguments

2. Applicant's argues that the prior art cited does not specifically teach speaking the vocabulary data to the speech recognition system in an automated manner using the audio module so as to expand the vocabulary database and providing the audio module with vocabulary data in a streaming mode from a telecommunication network. Applicant's explain that Brodsky described that the buffer vocabulary 104 merely temporarily stores the items and keywords until the buffer is full and such buffer cannot be read on Applicant's audio module. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., not being temporarily stored) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Applicant's further argue that in Brodsky, items or keywords are taken from closed caption text and input to the buffer vocabulary in text format and therefore are not spoken using an audio module. However, according to column 4, lines 18-35, Brodsky teaches that the items, words or

keywords can be spoken words, text, visual or audio information. Therefore, the combination of Ittycheriah with Brodsky is proper since Brodsky describes maintaining continuously changing dictionary of spoken words and Ittycheriah determines potential acoustic confusion from a word spoken. The rejection is maintained.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1, 3, 7-11 and 14-17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ittycheriah et al. (USPN 6,185,530), hereinafter referenced as Ittycheriah in view of Brodsky (USPN 5,809,471).

Regarding **claim 1**, Ittycheriah discloses a method for at least one of generating and expanding a vocabulary database of a speech recognition system (vocabulary expansion; column 3, lines 35-51 and column 5, lines 20-54), comprising:

providing a computer-based audio module (computer-based; column 2, lines 60-64 with column 3, line 35 – column 4, line 14); and
training the speech recognition system (speech recognition) by acoustic training using the audio module (acoustic; column 3, line 35 – column 4, line 14),

wherein the training the speech recognition system is performed by:
providing the audio module with vocabulary data (vocabulary; column 3, line 35 – column 4, line 14 with column 5, lines 20-54); and
speaking the vocabulary data (figure 1; speech utterance and element 24 with conventional input devices; column 5, lines 20-54) to the speech recognition system (speech recognition system) in an automated manner using the audio module so as to expand the vocabulary database (vocabulary expansion; column 3, line 35 – column 4, line 14 with column 5, lines 20-54 and column 6, lines 40-42), but does not specifically teach providing an audio module with vocabulary data in a streaming mode from a telecommunications network.

Brodsky discloses a method comprising providing an audio module with vocabulary data in a streaming mode from a telecommunications network (abstract with column 3, line 52 – column 4, line 66), to provide expanded information.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ittycheriah's method as described above, to obtain and store expanded inform for items and keywords (abstract with column 1, lines 51-67), as taught by Brodsky.

Regarding **claim 3**, Ittycheriah discloses a method wherein the training the speech recognition system (speech recognition system) is performed by providing the audio module with vocabulary data from a speech database (column 3, line 35 – column 4, line 14 with column 5, lines 20-54).

Regarding **claim 7**, Ittycheriah discloses a method of expanding a vocabulary method further comprising creating the speech database by automated speech synthesis of text data using a speech synthesis unit (TTS synthesis; column 5, lines 20-54).

Regarding **claim 8**, Ittycheriah discloses a method further comprising providing the text data from a text database (text; column 5, lines 20-54).

Regarding **claim 9**, Ittycheriah discloses a method wherein the audio module includes a speech synthesis unit (speech synthesis), which converts text data to speech data (TTS; column 5, lines 20-54).

Regarding **claim 10**, Ittycheriah discloses a method further comprising providing the text data from a text database (text; column 5, lines 20-54).

Regarding **claim 11**, Ittycheriah discloses a method further comprising:
creating a text database (text) in an automatic manner (automatic; column 5, line 20 - column 6, line 4); and

providing the text data to the speech synthesis unit from the text database (synthesis; column 5, lines 20-54).

Regarding **claim 14**, Ittycheriah discloses a method wherein the creating the text database is performed by automatically (automatically) reading the text data from the at least one text data source using a data processing system and wherein the automatically storing (memory) is performed using the data processing system (processor; column 5, line 20 – column 6, line 4).

Regarding **claim 15**, Ittycheriah discloses a method comprising:

creating the speech database by automated speech synthesis of text data (TTS synthesis) from a text database using a speech synthesis unit (text; column 5, lines 20-59) and

analyzing and processing the text data prior to the speech synthesis (column 5, lines 20-59).

Regarding **claim 16**, it is interpreted and rejected for similar reasons as set forth in claim 1. In addition, Brodsky discloses a speech recognition system comprising:

a vocabulary database (vocabulary; column 4, lines 18-35);

a text database (text; column 4, lines 18-35); and

a computer-based audio module (processor) a speech synthesis unit configured to receive text data from the text database (text) by acoustic speech input (acoustic) and convert the data to speech data, the speech data stored in a speech database (column 4, lines 18-67).

wherein the speech data is spoken into the vocabulary database (vocabulary) in an automated manner (automatically) using the audio module so as to expand the vocabulary database (column 3, line 52 – column 4, line 66 with column 1, lines 51-67).

Regarding **claim 17**, it is interpreted and rejected for similar reasons as set forth in claim 1. In addition, Brodsky discloses a method wherein a text database is generated automatically searching a telecommunications network for text data related to a selected search term (column 3, line 52 – column 4, line 66).

5. **Claims 12-13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ittycheriah in view of Brodsky and in further view of Besling et al. (USPN 6,363,348), hereinafter referenced as Besling.

Regarding **claim 12**, Ittycheriah in view of Brodsky discloses a method for expanding vocabulary, but does not specifically teach using a search engine.

Besling discloses a method comprising:

finding the text data in an internal or external telecommunications network (internet) using at least one search engine, the text data being associated with at least one search term (search; column 9, lines 42-49);

receiving the text data from at least one text data source (text; column 9, lines 42-49); and

automatically storing the text data in the text database (column 7, line 66 – column 9, line 49), for up-to-date textual data.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ittycheriah in view of Brodsky's method as described above, to create a language model which matches the context identifier and is also available for user by other users having the same interest (column 9, lines 42-49), as taught by Besling.

Regarding **claim 13**, it is interpreted and rejected for the same reasons as set forth in claim 12. In addition, Besling discloses a method wherein the telecommunications network includes the Internet (Internet; column 6, lines 1-37)

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAKIEDA JACKSON whose telephone number is (571)272-7619. The examiner can normally be reached on Monday-Friday from 5:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jakieda R Jackson/
Primary Examiner, Art Unit 2626